5 Primary

Al Mostafa in Moths



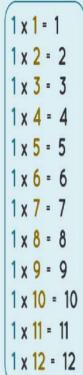




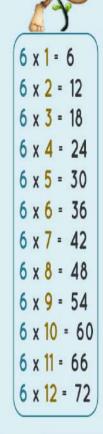




Multiplication Tables and Charts



4	X	1	=	4
4	X	2	=	8
4	X	3	=	12
4	X	4	=	16
4	X	5	=	20
4	X	6	=	24
4	X	7	=	28
4	X	8	=	32
4	X	9	=	36
4	X	10) :	40
4	X	11	:	44
4	X	12		48



1		**		
	7	X	2 =	14
	7	X	3 =	21
	7	X	4 =	28
	7	X	5 -	35
	7	X	6 =	42
	7	X	7 =	49
	7	X	8 =	56
	7	X	9 =	63
	7	X	10	- 70
	7	X	11 =	77
1	7	X	12	84

7 x 1 = 7

8 x 1 = 8

y	X	7 =	lö
9	X	3 =	27
9	X	4 =	36
9	X	5 -	45
9	X	6 =	54
9	X	7 :	63
9	X	8 =	72
9	X	9 =	81
9	X	10 =	90
9	X	11 =	99
9	X	12 =	108

9 x 1 = 9

10	X	1 = 10
10	X	2 = 20
10	X	3 = 30
10	X	4 = 40
10	X	5 = 50
10	X	6 = 60
10	X	7 = 70
10	X	8 = 80
10	X	9 = 90
10	X	10 = 100
10	X	11 = 110
10	X	12 = 120
_		

_	_	
11	X	1 = 11
11	X	2 = 22
11	X	3 = 33
11	X	4 = 44
11	X	5 = 55
11	X	6 = 66
11	X	<mark>7</mark> = 77
11	X	8 = 88
11	X	9 = 99
11	X	10 = 110
11	X	11 = 121
11	X	12 - 132













Revision

fractions



Proper fraction

is fraction less than 1 (<1)

Ex:
$$\frac{3}{5}$$
, $\frac{5}{7}$, $\frac{7}{12}$, $\frac{9}{15}$

the numerator is less than the denominator

Improper fraction

is fraction more than 1 (>1)

$$Ex: \frac{13}{5}, \frac{9}{7}, \frac{17}{12}, \frac{9}{5}$$

the numerator is more than the denominator

Mixed number

is consist of whole number and proper fraction

Ex: $2\frac{3}{5}$, $4\frac{5}{7}$, $5\frac{4}{6}$

Unite fraction

a fraction its numerator = 1

$$\frac{1}{3}$$
 , $\frac{1}{5}$, $\frac{1}{7}$, $\frac{1}{10}$

Equivalent fraction

$$\frac{3}{10} = \frac{30}{100} = \frac{300}{1000} = \dots$$

⊙Prime number :

it has only two factor 1 and itself

2, 3, 5, 7, 11, 13, 17, 19,.....

Ofactors of 15 is 1 , 3 ,5 and 15

prime factors of 15 is 3 and 5

1 is common factor of all number

0 is common multiple of all number

area of rectangle

= length × width or (L × W)

perimeter of rectangle

= $(length + width) \times 2$ or (L+W)X2

⊙ area of square

= side length × itself or (SXS)

perimeter of square

= side length × 4 or (4 X S)

Example Convert in to mixed number:

$$1) \frac{32}{6} = \dots$$

$$(2) \frac{24}{5} = \dots$$

$$3) \frac{17}{4} = \dots$$

Exercise Convert in to mixed number:

(1)
$$\frac{15}{7} = \dots$$
 (2) $\frac{23}{5} = \dots$

$$(2) \frac{23}{5} = \dots$$

$$3) \frac{19}{6} = \dots$$

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Example convert in to improper fraction:

(1)
$$2\frac{3}{4} = \dots$$

(1)
$$2\frac{3}{4} = \dots$$
 (2) $3\frac{2}{5} = \dots$

$$34\frac{1}{6} = \dots$$

Exercise convert in to improper fraction:

$$\bigcirc 1 \ 5 \frac{1}{4} = \dots$$

①
$$5\frac{1}{4} = \dots$$
 ② $2\frac{2}{3} = \dots$

$$37\frac{2}{5} = \dots$$

Example write in expanded form:

Exercise write in expanded form:

Example write in standard form:

$$\bigcirc 1 60,000 + 2,000 + 600 + 30 + 7 = \dots$$

$$(2)400,000 + 20,000 + 800 + 6 = \dots$$
 (3)

$$(3)$$
 30,000 + 8 =

Exercise write in standard form:

$$(1)$$
 20,000 + 5,000 + 100 + 30 =

$$(2)900,000 + 6,000 + 800 + 7 = \dots$$

$$(3)$$
 80,000 + 500 =

Example find the value of X

①
$$X - 324 = 426$$
, then $X =$

(2)
$$564 + X = 827$$
, then $X = \dots$

Exercise find the value of X

(1)
$$X - 54 = 46$$
, then $X = ...$

(2)
$$231 + X = 400$$
, then $X = \dots$

Example \bigcirc put the sign (>, =, <)

Exercise \bigcirc put the sign (>, =, <)

$$\boxed{1\ 500 \times 7} \boxed{ } 700 \times 5$$



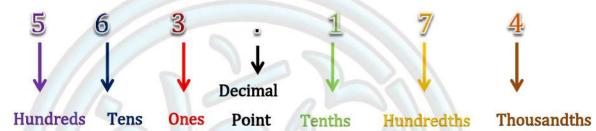
Lesson 1

Decimals to thousandths

Learn

- A decimal is a number that uses a decimal point as 563.174
- A decimal has one or more digits to the right of decimal point

The place Value and the value Chart



The Value

Place Value

500

60

3

0.1

0.07

0.004

Standard form: 563.174

We write the word and after the whole part

Word form: Five hundred sixty-three and one hundred seventy four thousandths

Unit form: 5 hundreds, 6 tens, 3 ones, 1 tenths, 7 hundredths, 4 thousandths

Example ① Write in decimals:

①
$$\frac{3}{10} = \dots$$

②
$$\frac{23}{100} = \dots$$

$$\Im \frac{342}{1000} = \dots$$

①
$$\frac{3}{10} = \dots$$
 ② $\frac{23}{100} = \dots$ ③ $\frac{342}{1000} = \dots$ ④ $3\frac{7}{10} = \dots$

$$6\frac{67}{1000} = \dots$$

$$\bigcirc$$
 23 $\frac{5}{100} = \dots$

(5)
$$\frac{24}{10} = \dots$$
 (6) $\frac{67}{1000} = \dots$ (7) $23\frac{5}{100} = \dots$ (8) $\frac{319}{100} = \dots$

Exercise Write in decimals:

①
$$\frac{9}{10} = \dots$$

$$2 \frac{2}{100} = \dots$$

$$\Im \frac{7}{1000} = \dots$$

①
$$\frac{9}{10} = \dots$$
 ② $\frac{2}{100} = \dots$ ③ $\frac{7}{1000} = \dots$ ④ $4\frac{4}{10} = \dots$

$$\bigcirc$$
 6 $\frac{3}{100} = \dots$

(5)
$$\frac{15}{100} = \dots$$
 (6) $\frac{452}{1000} = \dots$ (7) $6\frac{3}{100} = \dots$ (8) $\frac{15}{1000} = \dots$

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Example Write in improper fraction:

① 3.6 =

•Write the place value of the digit 5 in the following numbers:

4.56

2.345

0.754

5.32

54.8

520.64

Write the value of the digit 3 in the following numbers :

23.4

2.**3**45 0.4**3**7

1.253

Complete

① 9 hundredths = ② 5 tenths =

3 3 thousandths =

Exercise 2

Choose the correct Answer:

① $2.07 = \dots$

$$\left[2\frac{7}{10}, 2\frac{7}{100}, 7\frac{2}{10}, 7\frac{2}{100}\right]$$

 $\bigcirc 0.18 = \dots$

③ The value of the digit 5 in 21.351 is =

0.5 , 0.05 , 0.005] [5

4 The value of the digit 2 in 42.035 is =

[2 , 0.2 , 0.02 , 0.002]

 $\frac{18}{10} = \dots$ in decimal

[0,018 , 0.18 , 10.8 , 1.8]

⑥ 8 Thousandths =

[0.008 , 0.08 , 0.8 , 8,000]

⑦25 tenths =

[0.025, 0.25, 2.5, 25]

®sixteen Thousandths =

[16,000 , 1.6 , 0.16 , 0.016]

9 Which digit in the tenths place in the number 14.07 $\begin{bmatrix} 0 & 4 & 1 & 7 \end{bmatrix}$

the place value of the digit 7 in the number 48,257 is

[thousands , tenths , hundredths , thousandths]

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Answer the following:

1

63.24

In standard form :

In word form:....

In unit form:

2

23.07

In standard form:.....

In word form:

In unit form:....

Exercise ®

Answer the following:

(1)

5.284

In standard form :

In word form :

In unit form:

(2)

34.671

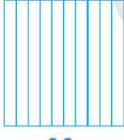
In standard form:.....

In word form:....

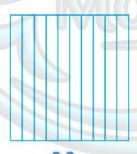
In unit form:

Example 49

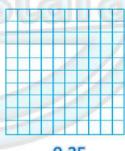
Shade:



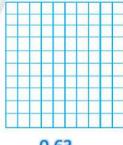
0.6



0.3

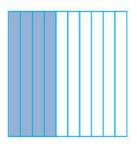


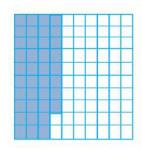
0.25

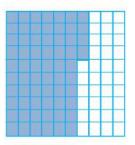


0.63

Exercise Write the decimal:







Home Work

(1) Complete the following:



① 5.231..... (in expanded form)

②1.002 (in expanded form)

 $37 + 0.3 + 0.04 + 0.009 = \dots$ (in standard form)

 $40 + 0.8 + 0.07 = \dots$ (in standard form)

⑤ Two and forty one thousandths =

6 seven hundred and seven hundredths =

7 ninety six and eight tenth = 8 24 hundredths

(2) Choose the correct answer:

② $0.48 = \dots$ $\left[\frac{48}{10} , 4\frac{8}{10} , \frac{48}{100} , 1\frac{48}{100} \right]$

③ The value of the digit 3 in 21.351 is = [3 , 0.3 , 0.03]

4 The value of the digit 5 in 42.035 is = [5 , 0.5 , 0.05 , 0.005]

© 49 Thousandths = [0.49 , 4.09 , 0.049 , 4.009]

The place value of the digit 4 in the number 18,243 is

[thousands , tenths , hundredths , thousandths]



Lessons 2&3

Place value shuffle

Composing and decomposing decimals

Learn

Place value shuffle

• if a whole number or a decimals is multiplied by [10, 100], then each digit From this number moves to left [one, two] spot and The value of each digit increases [10, 100] times.

	Н	T	0	Tenths	hundredths	thousandths
		2	5	8	7	4
× 10	2	5	8	7 4	4	21

Example Complete the following:





Exercise



6.5 X 10

= 65

The value of a whole numberincreasewhen multiplying by 10

The value of 6 ...increase ... when multiplying by 10 from ...6. To ...60..

The value of 5 ...increase .. when multiplying by 10 from ...0.5.. To ...5..

Learn Place value shuffle

• if a whole number or a decimals is divisible by [10, 100], then each digit

From this number moves to right [one, two] spot on the place value chart and

The value of each digit decreases [10, 100] times.

	Н	Т	0	 Tenths	hundredths	thousandths
		8	4	9_	3	
÷10			8	4	9	3

Example Complete the following:

Exercise ①



$$= 34.5$$

The value of a whole numberdecrease.....when dividing by 10

The value of 3 ...decrease... when dividing by 10 from ...300.... To ...30.....

The value of 4 ...decrease... when dividing by 10 from ...40..... To ...4.....

The value of 5 ...decrease... when dividing by 10 from ...5.... To ...0.5.....



Learn 2 Composing and decomposing decimals

- Composing: decimals means [put together]
- Decomposing: decimals means [broken a part]
- you can decompose 843 .572 in different ways:

1st way

843.572 =

800+40+3+0.5+0.07+0.002

2nd way

843.572 =

843+0.5+0.07+0.002

3rd way

843.572 =

843 + 0.572

Example Compose each of the following:

$$4000 + 80 + 7 + 0.1 + 0.002 = \dots$$



$$420 + 0.2 + 0.07 + 0.009 = \dots$$

$$60 + 8 + 0.6 + 0.01 + 0.003 =$$



$$600 + 7 + 0.2 + 0.09 + 0.005 = \dots$$



$$0.3 + 0.008 + 0.05 = \dots$$

$$0.7 + 0.006 + 0.03 = \dots$$

Exercise Compose each of the following:

$$100 + 30 + 7 + 0.2 + 0.001 = \dots$$



$$541 + 0.6 + 0.004 = \dots$$

$$\boxed{3} \quad 50 + 1 + 0.6 + 0.02 + 0.009 = \dots$$

$$400 + 7 + 0.09 + 0.001 = \dots$$

$$\boxed{\textbf{6}} \quad 400 + 0.4 + 0.004 = \dots$$

$$0.6 + 0.007 + 0.03 = \dots$$

$$0.01 + 0.001 + 0.1 = \dots$$

Example Decompose the following numerals using expanded form:

- (1) 640.078 =
- (2) Twenty three and forty two thousandths =
- $(3) 65.12 = \dots$
- 4 Ninety one and six hundredths =
- (5) 3000.428 =
- 6) Ninety two thousandths =

Exercise Complete each of the following:

- (1) 4.208 = + 0.2 + 0.008
- (4) 57 thousandths = $0.007 + \dots$
- (2) = 4 + 0.005 + 0.3 (3) 283 thousandths = + 0.2 + 0.08
- (5) seventy and eight thousandths = +

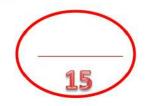
Exercise Match the cards that have the same numeral.

$$78.42 \times 10$$

$$78.42 \times 10$$

Home Work

(1) choose the correct answer:



1) The number four and forty one thousandths in standard form is

2) The value of the digit in tenths place in the number 7.024 is

3) Place value of the digit 4 in the number 27.614 is

4) Which number of the following has 3 hundredths, 7 ones, 2 thousandths?

5) Seventeen thousandths =

6) What is the standard form for : 60 + 3 + 0.5 + 0.004?

7) 215 hundredths = [in expanded form]

a-
$$200 + 10 + 5$$
 b- $20 + 1 + 0.5$

$$b - 20 + 1 + 0.5$$

$$c-2+0.1+0.05$$

$$d - 200 + 0.1 + 0.05$$

8) 72.43 × 10 =

9) $43.12 \div 10 = \dots$

Complete

$$112 \text{ hundredths} = 10 + \dots$$

$$(2)$$
 = $600 + 3 + 0.3 + 0.006$

$$4)$$
 394.6 ÷ 100 =

$$6493.7 \div \dots = 49.37$$



Comparing decimals

Learn

to compare between two decimals begin with:

1st : Compare the whole number

2nd : compare tenths

3rd: compare hundredths

: compare thousandths

Example Circle the greater:

① 0.6 or 1.2

② 0.723 or 0.8

③ 4.5 or 4.18

4 70 or 69.34

⑤ 4.1 or 4.001

6 0.234 or 0.235

Example @ put the sign (> , = , <)

50.009

50.100

2

2.01

2.099

3

45.057 45.1

4

10.

10.011

(5)

7

34.500

6

4.904

) 4 + 0.9 + 0.004

Exercise Choose the correct answer:

① 3.24 3.239

34.5

[>,<,/=/

 \leq]

 \leq

②19 hundredths19 thousandths

| > , < , = ,

③Which is the greater than 1.72?

[1.27 , 1.07 , 1.8 , 1.072]

4All the following are equal except [0.300 , 0.003 , 0.3 , 0.30]

⑤Which of the following is true?

a - 0.532 > 0.537

b- 0.1 + 3 < 1.3

C - 1.019 > 1.1

 $d - \frac{18}{10} = 1.8$

Home Work

30

① Compare the decimals using the symbols [> , = , <]

Exercise Choose the correct answer:

①
$$2.24$$
 3.238 [> , < , = , \leq]

②15 hundredths 15 thousandths
$$[>, <, = , \leq]$$

$$\textcircled{All}$$
 the following are equal except [0.400 , 0.004 , 0.4 , 0.40]

⑤Which of the following is true?

a-
$$0.357 > 0.537$$
 b- $0.357 > 0.375$

$$C - 0.573 > 0.537$$
 $d - 0.357 > 0.537$



Lesson 5

rounding decimals

Learn

1st way Midpoint strategy

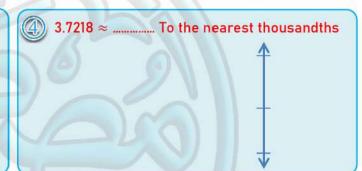
Example Use midpoint strategy to round each of the following:

19.7 \approx To the nearest whole number



2 3.54 \approx To the nearest tenths

6.839 ≈ To the nearest hundredths



Exercise Use midpoint strategy to round each of the following:

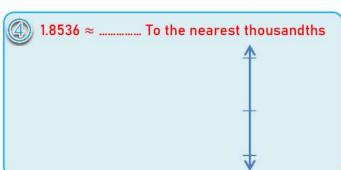
4.37 ≈ To the nearest whole number





O.852 ≈ To the nearest hundredths





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2nd Way rounding rule strategy

Example Use place value strategy to round each of the following:

① $0.7 \approx$ (to the nearest Whole number)

 \bigcirc 5.49 \approx (to the nearest tenths)

③ $0.874 \approx$ (to the nearest hundredths)

 $48.090 \approx$ (to the nearest tenths)

(5) 58.936 ≈ (to the nearest ten hundredths)

6 2.7365 ≈ (to the nearest thousandths)

®3.875≈ (to the nearest Whole number)

Exercise Use place value strategy to round each of the following:

Round to the nearest whole number.

a- 0.7 ≈ b- 10.18 ≈..... C- 24.58 ≈

d- 4.87 ≈

e- 12.287 ≈

f- 0.006 ≈

Round to the nearest tenths.

a-13.75 ≈

b-83.914 ≈

c- 90.09 ≈

d- 0.208 ≈

e- 43.95 ≈

f- 0.07 ≈

Round to the nearest hundredth:

a- 76.514 ≈

b- 0.737 ≈

c- 0.996 ≈

d- 5.548 ≈

e- 6.342 ≈

f- 1.681 ≈

round to the nearest thousandth:

a- 2.4538 ≈

b- 0.4532 ≈

c- 1.7645 ≈

d- 8.4397 ≈

E- 4.7801 ≈

f- 0.0049 ≈

Home Work



(1) Complete:

 $\bigcirc 4.478 \approx \dots$ To the nearest tenths.

 $20.5219 \approx \dots$ to the nearest thousandths.

 $34.23 \approx \dots$ To the nearest whole number.

 $46.452 \approx \dots$ to the nearest hundredths.

(2) Choose the correct answer:

① Round 8.099 to the nearest tenths ≈

a- 7.00 b- 8.08

c-8.090

d-8.1

② Round 2.5698 to the nearest thousandths ≈

a- 2.569

b- 2.560

c- 2.57

d-2.568

③ $42.81 \approx$ to the nearest whole number

a- 42.8

b-43

c- 42

d-44

4 160.745 \approx to the nearest tenths

a- 160.7

b-160.8

c-161.0

d-160.75

(5) Which number could be rounded to 0.58

a- 0.589

b-0.57

c-0.59

d-0.577

ⓑ 49.386 ≈ 49.4 to the nearest

a- whole number

b-tenths

c-hundredths

d-thousandths

(3) Mazen is a planning a trip from Cairo to Wadi Elryan . he will travel 147.72 kilometers . round the distance to the nearest tenths?



Lesson 6

Estimating decimals sum

Learn

Estimation is a way to get a number that is close to the actual answer but not exact

1st Front - end estimation strategy

Example Estimate each of the following sums by using front - end estimation

Exercise Estimate each of the following sums by using front - end estimation

2nd

Benchmark decimals

 $0, \frac{1}{2} \text{ and } 1$

Example Estimate each of the following sums by using benchmark



3rd Rounding strategy

Example Estimate each of the following sums by using rounding

① $0.7+3.45 \approx$ (to the nearest Whole number)

2 5.49+ 31.75 \approx (to the nearest tenths)

 \bigcirc 0.874 + 3.452 \approx (to the nearest hundredths)

 $48.090 + 1.47 \approx \dots$ (to the nearest tenths)

 $(558.936 + 41.643 \approx \dots)$ (to the nearest ten hundredths)

62,736.5 + 4,235.6 \approx (to the nearest thousands)

⑦169.46 + 356.47≈ (to the nearest thousandths)

Exercise Estimate each of the following sums by using benchmark

Exercise Sestimate each of the following sums by using benchmark

$$47.52 + 2.032 = \dots + \dots = \dots$$
 (to the nearest tenths)

②
$$7.123 + 12.007 = \dots + \dots = \dots$$
 (to the nearest hundredths)

$$3$$
 52.4 + 3.65 = (to the nearest whole number)

Home Work

(1) Estimate each of the following sums by using front - end estimation



$$8.45 + 15.3 = \dots + \dots = \dots$$

$$7.36 + 13.34 = \dots + \dots = \dots$$

Estimate each of the following sums by using benchmark



$$4.75 + 23.25 = \dots + \dots = \dots$$





$$17.36 + 3.94 = \dots + \dots = \dots$$

Estimate each of the following sums by using benchmark

(to the nearest tenths)

(to the nearest hundredths)

$$\bigcirc$$
 72.4 + 5.15

 $72.4 + 5.15 = \dots + \dots = \dots$

(to the nearest whole number)

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Lesson 7

Adding decimals

Learn To Add two decimals begin with:

1st : Add decimals in thousandths place

2nd: Add decimals in hundredths place

3rd: Add decimals in tenths place

: Add whole part left the point

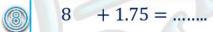
Example ① Add:

 $85.14 + 4.73 = \dots$ 2

 $3.425 + 7.751 = \dots$

(5) $42.23 + 75.453 = \dots$

 $6.452 + 12.3 = \dots$



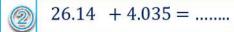
45.7 + 51= 9



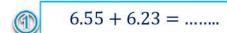
(12)

 $2.82 + 7.751 = \dots$

Exercise ① Add:



1) Add:





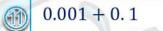
$$3.625 + 6.751 = \dots$$



$$6.152 + 12.5 = \dots$$



(12)





$$2.38 + 4.731 = \dots$$







(2)Choose the correct answer:

- 1) 4.7 + 3.8 =
 - a- 7.15

b-8.5

c- 8.8

- d-15
- 2) 4 hundredths + 35 thousandths = thousandths
 - a- 0.39

- b-0.039
- c- 75

d-0.075

- 3) The estimation of 49.872 + 50.011 is
 - a- 99

b- 100

c-101

d-102

- 4) $0.03 + 0.003 = \dots$
 - a- 0.6

b-0.66

c-0.33

d-0.033

- 5) 71 hundredths + 9 hundredths =tenths
 - a- 88

b-80

c-800

d-8



Subtracting decimals

Example Estimate:

Exercise ① Estimate:

Example Find the result:

Exercise Find the result:

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Answer:

•	a man bought some	goods for 306.7	7 L.E .	and sold	them for	366.95	L.E. find

The profit?

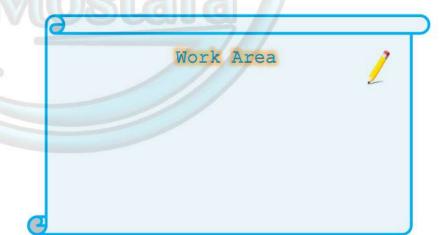


ibranim nad	53./5 L.E.	ne spent	35.05 L.E.	find the r	emainder	with hir	n?

To think Complete:

①
$$+54.8 = 77.59$$

$$36.27 - \dots = 3.286$$



1) Subtract:

$$8.55 - 6.23 = \dots$$



$$35.14 - 4.78 = \dots$$



$$16.25 - 6.75 = \dots$$



$$6.152 - 4.5 = \dots$$





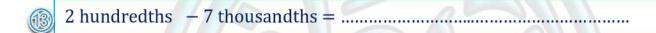
$$43.6 - 21 = \dots$$



$$0.1 - 0.001 = \dots$$



$$01.38 - 4.731 = \dots$$





7 hundredths – 46 thousandths = thousandths

(2) Choose the correct answer:

- 1) $4.7 3.8 = \dots$
 - b- 7.15

b-8.5

c- 1.1

- d-7.1
- 2) 4 hundredths 35 thousandths = thousandths
 - b- 0.05

- b-0.005
- c- 15

d-0.015

- 3) The estimation of 49.872 38.752 is
 - b- 9

b- 100

c-101

d-12

- 4) $0.03 0.003 = \dots$
 - b- 0

b-0.66

c-0.33

d-0.027

- 5) $71 \text{ hundredths} 1 \text{ hundredths} = \dots \text{tenths}$
 - b- 7

b-72

c-80

d-8



Lessons 1-3

expression, equation and variables Variables in Equation

Learn

mathematical expression

is statement contains numbers or numbers and symbol Separated by one or more operations as $[+,-,\times$ and \div and does not contain the equal sign [=]

Ex: 34 + 86 and 56 + m

Equation

is mathematical expression contains the equal sign [=]

$$EX: 24.8 - k = 17.5$$

$$4.2 + 1.5 = x$$

$$4.2 + 1.5 = 8.9 - 3.2$$

Example Choose equation, expression or neither:

① 3.6 + 1.2 = x

[equation or expression or neither]

214.78 - 3.4

[equation or expression or neither]

(3) 14 × 7 = M

[equation or expression or neither]

3.4 + L

[equation or expression or neither]

(5) 15.8 + 7.13

[equation or expression or neither]

(6) Amir had 3.4 kg of apples and 2.7 kg of figs [equation or expression or neither]

Example Write an equation

12. 5 plus a number equal 15

② subtract a number from 5.63 equal 3.154

3 Ahmed 52 L.E. and his sister has 84 L.E. the equation which represent the total amount is

4 Ali saved 147 L.E. in two weeks, if he saved 93 L.E. in the first week, then the equation that represent what he save in the second week is



Learn

Variables in Equations

Solving equation means finding the variable in the equation.

Example Solv the following equations:



$$3.64 - h = 8.4$$

(8) 7.45 - 3.42 = k

Exercise Solv the following equations:

$$9 y - 1.25 = 9.17$$

Example Solve the equation :

- ① 8.23 + p = 10.24 then p =
- ② t 2.45 = 0.26 then t = ...
- 315 x = 8.23 then x = ...
- $4 \text{ v} + 45.8 = 64.9 \text{ then } \text{v} = \dots$

Exercise Find the value of variable in the following bar models:

1	X						
	34.75	19.051					
	. 1						

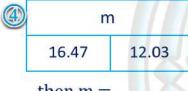
then $x = \dots$

2	78.514					
	а	29.125				

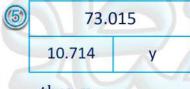
then $a = \dots$

3	35.7				
	h	18.07			

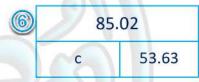
then $h = \dots$



then $m = \dots$



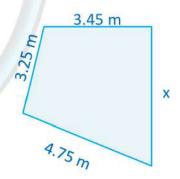
then $y = \dots$



then $y = \dots$

ro think if the perimeter of this shape is 16.70 m

What does x equal?



Ola needed 10 meters of wood to build a garden bed . She found 3.5 m in here garage how many more meters of wood does she need

For the bed?

(8) the weight of Mariam is 35.235 kg. and the weight of Lucy is 42.012 kg. What is there weight together?

Home Work



1) Choose the correct answer:

① If
$$p + 3.562 = 4.213$$
, then $p = \dots$

a- 1

b-2

c-3

d-2.001

②If
$$3.462 - x = 1.451$$
, then $x =$

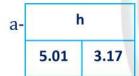
- a- 4.913
- b-2.001
- c-2.011
- d-4.914

③If
$$m - 3.459 = 4.213$$
, then $m =$

- a- 0.754
- b-1.672
- c-0.632
- d-7.672

\bigcirc from opposite bar model the value of $y = \dots$

- a- 13.4
- b-3.336
- c-10.456
- d-2.832
- 8.368 y 5.03
- **⑤**Which of the following bar model is suitable the equation 5.01 h = 3.17?

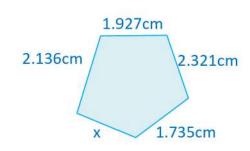


- b- 5.01 h 3.17
- C 3.17 5.01 h
- d- h 3.17 1.84

2) Solve each of the following equation:

- ① 2.342 + n = 3.418
- ② W 4.143 = 6.150
- $35.235 + p = 10.462 \dots$
- 4 c 3.425 = 2.520
- ⑤ 23.024 + k = 25.130
- 3 In the opposite figure, the perimeter of the shape

Is 10.177 cm then the value of $x = \dots$:





Lesson 4

Prime factorization

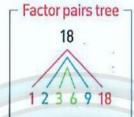
Learn

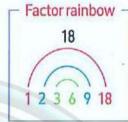
Prime factorization

Remember Find all factors of 18



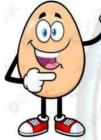
But not all of these numbers are prime numbers!





Factor 1	T-chart – 8
1	18
2	9
3	6

, then the factors of 18 are: 1, 2, 3, 6, 9 and 18.



prime number Is a whole number has only 2 different factors 1 and itself

A composite number Is a whole number greater than 1 has more than 2 factors



A prime number

	2	2	3	5	7	1	1	13	17	19	23	2	9	31	37	
4	1	43	47	5	3	59	61	67	71	. 73	3 7	9	83	89	97	

Note

- one factor
- All prime numbers are odd except 2



How can you write a number as a product of prime factor?

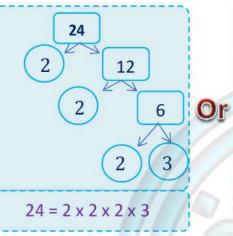
Every composite number can be written as product of prime number . this product

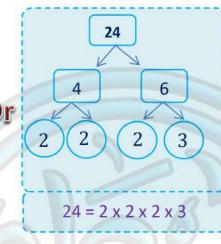
The prime factorization of a number.

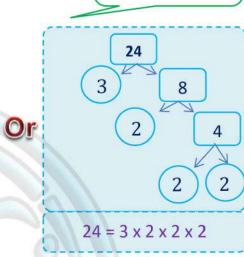
Learn

Find the prime factorization for 24









Example

Factorize to a prime factors:

12

30

28

16

45

40

Example2

Complete

- ① 2,5,7 are the prime factors of
- ② 3,3,3 are the prime factors of
- 3 2, 2, 5 are the prime factors of

Exercise 1

Factorize to its prime factor:

15

18

36

16

63

Exercise Complete

- ① 2,2,2 are the prime factors of
- ② 2,3,3 are the prime factors of
- 3 3, 3, 5 are the prime factors of

15

Home Work

1 Complete

① 2,2,7 are the prime factors of

② 2,3,5 are the prime factors of

3 2,5,7 are the prime factors of

2 Factorize to its prime factor:

8 32 10

48 56 44



Lesson 5

Greatest common factor (GCF)

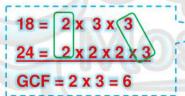
How can you find greatest common factor of 18 and 24 [GCF]

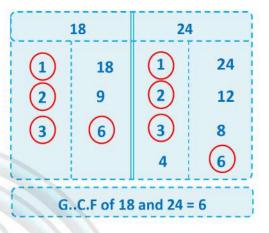
First way using listing method:

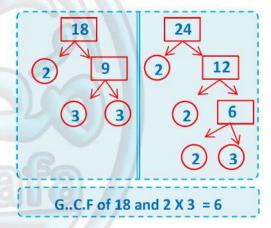
- 1- find the factor of each number
- 2- determine the common factors of these number
- 3- get the greatest factor of the common factor.
 - factors of $18: 1, 2, 3, \frac{6}{6}, 9, 18$
 - factor of 24: 1,2,3,4,6,8,12,24
 - common factors: 1,2,3,6
 - the greatest common factor [GCF]: 6

Second way using prim factorization:

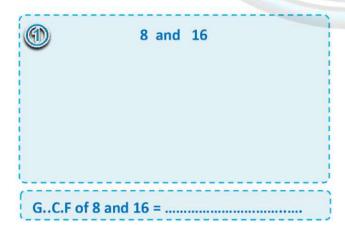
- 1- factorize each number to its prime factors.
- 2- find the common prime factor.
- **3-** find the product of this prime factor.

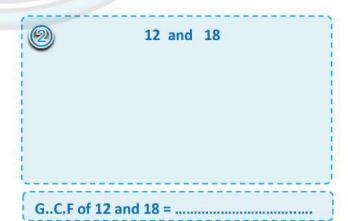






Example Find the [GCF] of the given numbers:







®	30 and	42	1
			1
			1

24 and 32

G..C.F of 30 and 42 =

G..C.F of 24 and 32 =

Exercise ① Find the [G.C.F] of the given numbers:

40 and 50

G..C.F of 40 and 50 =

45 and 81

G..C.F of 45 and 81 =

(3)

12 and 18

G..C.F of 12 and 18 =

15 and 25

G..C.F of 15 and 25 =

18

1) Find the [G.C.F] of the given numbers :



15 and 20

2

45 and 30

G..C.F of 15 and 20 =

G..C.F of 45 and 30 =

(3)

21 and 42

4

(4)

24 and 36

G..C.F of 21 and 42 =

G..C.F of 24 and 36 =

(3)

16 and 18

20 and 35

G..C.F of 16 and 18 =

G..C.F of 20 and 35 =

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Lessons 6 - 7

Identify multiples

Least common multiple (L.C.M)

Learn

A multiple is the product of multiply the given number by other numbers

Zero is common multiple of all numbers

① multiples of 2 are 0,2,4,6,8,10,12,14,16,18,20,..... and so on.

All even numbers are multiple of 2

2 multiples of 3 are 0,3,6,9,12,15,18,21,24,27,30,..... and so on.

All numbers that the sum of its digit 3,6,9,12,15,18,.... are multiple of 3

③ multiples of 5 are 0,5,10,15,20,25,30,35,40,45,50,...... and so on.

All numbers that the ones digit is 0 or 5 are multiple of 5

Exercise List 4 multiple for each of the following

- 1 4 -
- (2) 6 **-**
- (3) 8 -
- (4)10 →

Learn A common multiple is a multiple of two or more numbers

Least common multiple [L.C.M] IS smallest multiple [other than 0] that two Or more numbers have in common. **Example**

1st way

6 and 12

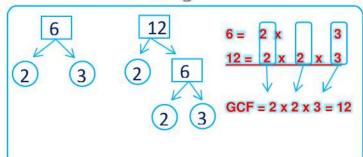
 $6 = 0, 6, 12, 18, 24, 30, \dots$

12 = 0 , 12 , 24 , 36 ,

Common multiples: 0, 12, 24,

G.C.F is: 12

2nd way

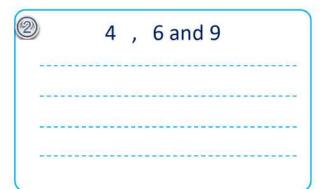


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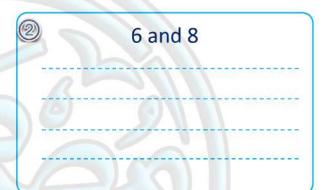
Example find (L.C.M) for each of the following:

1	2 and 3



Exercise find (L.C.M) for each of the following:

0	4 and 6	
		- (
		-
		1/
		-



Exercise Choose the correct answer:

which of the following is a multiple of 5?

27	The number that is not multiple of 3 is
32	20 is multiple of
(4)	Which is a common multiple of 5 and 8



1) Choose the correct answer:

		-	500 100	7523 79	74 Sept.	-
(1)	The number that is multiple of 3 is	1 7	. 16	. 24	, 46	

$$②$$
The number that is not multiple of 3 is $[3, 9, 23, 27]$

$$(4)$$
Which is a least common multiple of 5 and 10 ... [10 , 15 , 20 , 50]

2 Complete:

- ① The common multiple of all numbers is
- ② All even numbers are multiple of
- 3 All numbers that the ones digit is 0 or 5 are multiple of
- ⑤.....is L.C.M of 3 and 5

3 Find (L.C.M) for each of the following:

1	3 and 4	

2	10 and 8	

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Lesson 8

Factors or multiples?

Learn

Example Complete the following:

- ① If 2X4 = 8, then 2 and 4 are a factors of
- ② If 3X7 = 21, then 21 is a multiple of
- 36 is a multiple of
- 4 6 is a factor of
- ⑤..... is a multiple of 8
- 6..... is a factor of 8

Exercise Choose Factor or Multiple to each of the following:

- ① 6 is a of 3
- ② 4 is a of 12
- ③ 15 is a of 3
- ② 24 is a of 8
- ⑤ 14 is a of 7
- 6 9 is a of 27
- 78 is a of 4
- 8 5 is a of 30
- 9 10 is a of 5
- 10 6 is a of 18

- [Factor or Multiple]
- Factor or Multiple
- [Factor or Multiple]
- [Factor or Multiple]

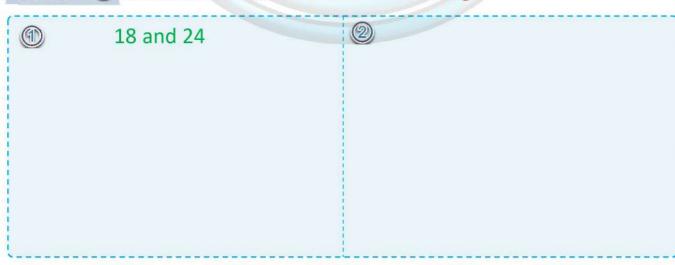
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Relation between G.C.F and L.C.M

Example Find GCF and LCM for each of the following:



Exercise Find GCF and LCM for each of the following:



(1)Choose the correct answer:

- [2 0 7 27]

[3 , 12 , 24 , 60

- ②The number 27 is not multiple of 3 is
- [3,9,7,27]

30 is a factor of

[3,6,10,30]

(4) Which is L. C. M of 2 and 10 ...

[10 , 15 , 20 , 50]

⑤ The G.C.F of 3 and 9

[3,6,9,18]

2) Find GCF and LCM for each of the following:

- 1
- 6 and 8

- 2
- 12 and 18

(3)

15 and 12



9 and 36



Lesson 1

Using the area model to multiply

Learn

Area of rectangle = $length \times width$

 $A = L \times W$

We can use area of a rectangle to find 14×15 as following

1	5	10
10		
4		

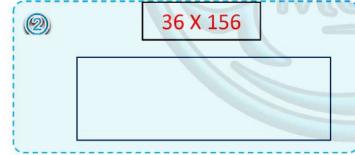
2	10	5
10	10X10= <mark>100</mark>	10X5= <mark>50</mark>
4	4X10= <mark>40</mark>	4X5= <mark>20</mark>



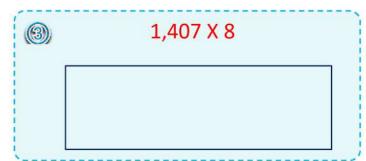
Example : Find the product of the following by using area model :

(1)	25 X 183	
	803	C
L		

Add all products



Add all products



Add all products



Exercise Find the product of the following by using area model:

12 X 18

Add all products

8 X 523 2

Add all products

209 X 17 (3)

Add all products

4 24 X 235 Add all products

52 X 853

Add all products

24

① Find the product of the following by using area model:

1

12 x 25

1

572 x 93

1

201 x 32

1

7 x 462

1

37 x 25

1

13 x 125



Lessons 2 & 3

The Standard Multiplication

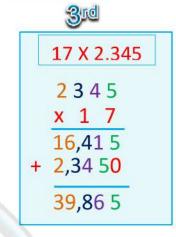
Multiplication problems in the real world



17 X 2,345



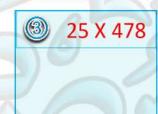


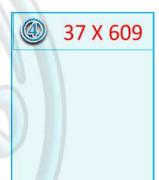


Example ① Find the product of the following





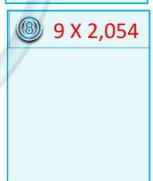


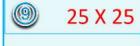




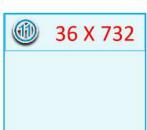














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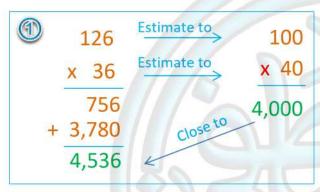






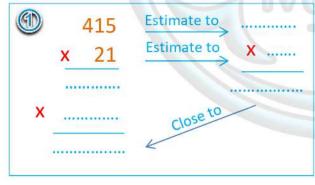


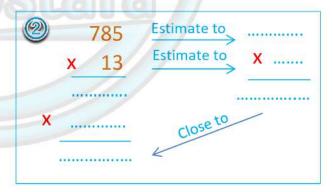
Learn Estimating product

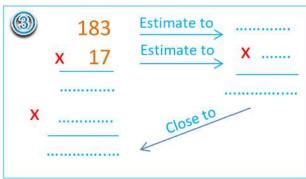


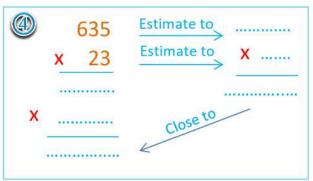


Use the estimate by round the greatest place value then find The actual product









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Multiplication problems in the real world

Lacii Kci	bab with 83 grams of meat , how many grams of meat did sh
Ahmed	saved 123 pounds , Logy saved 12 times as Ahmed ,
ow muci	h money logy saved ?
	N Mostafa /
	the season costs 125 pounds . sweaters cost 270 pounds . Ya nds bought 12 shirts and 13 sweaters . how much money the



1 : Find the product of the following



② loucy saved 246 pounds , Linda saved 15 times as Loucy,

How much money Linda saved?



Unit 4

Lessons 1-2

Division by a two-digit number Estimating quotient

Remember

$$17 \div 3 = 5$$

Dividend



Divisor



R 2

Remainder

Notes

- Always the remainder must be less than the divisor.
- •The dividend = divisor x quotient + remainder

Multiplying Facts

Quotient

$$2 \times 4 = 8$$

$$20 \times 4 = 80$$

$$2000 \times 4 = 8000$$

Division Facts

$$8 \div 2 = 4$$

$$80 \div 2 = 40$$

$$800 \div 2 = 400$$

$$8000 \div 2 = 4000$$

Learn

Area model to divide

Notes

Area of rectangle = LXW

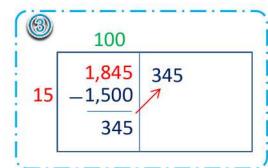
Divide:

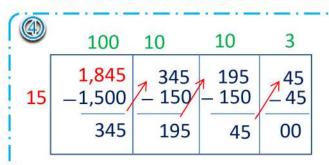
1,845 ÷ 15 by using the area model





Notes 15x1 = 15 15x2=30 15x3=45 15x10=150 15x100=1500

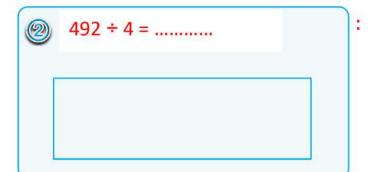




The quotient = 100 + 10 + 10 + 3 = 123

Example 1 Use the area model to solve :





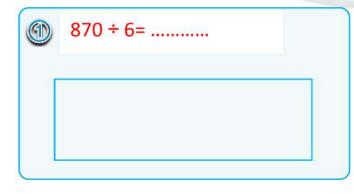


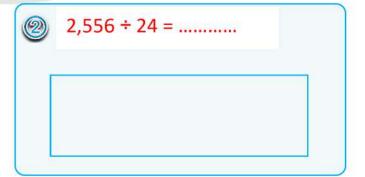






Exercise1







Learn

Estimating quotient

We use front end estimation

870 26 =

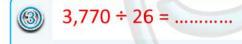
Example1 Estimate the quotient:

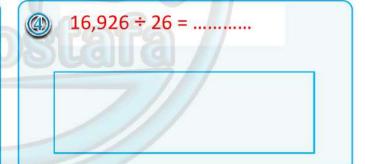


Exercise 1 Estimate the quotient:

1 Use the area model to solve :







2 Estimate the quotient:



Lessons 3-4

Standard algorithm to divide

Learn

MATH IDEA

The order of division is as follows:

1) Divide

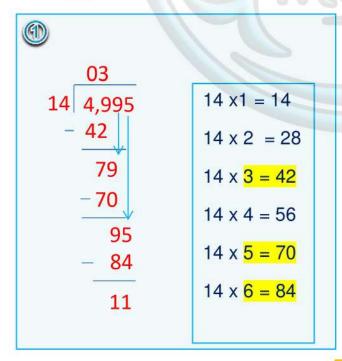
2 Multiply

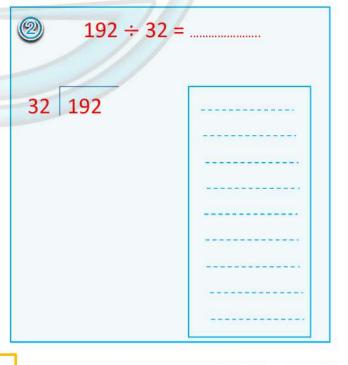
3 Subtract

3 Bring down

Repeat this order until the division is complete.

Example 1 Find the quotient:







③ 8,014 ÷ 46 =

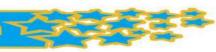
46 8,014

65 543

6,203 ÷ 11 =

11 6,203

31 9,363



Exercise1 Find the quotient:

15 1,515

1	(4	

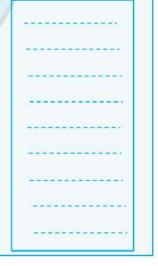
18 1,818

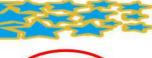


(5)

13 2,028

64 16,96

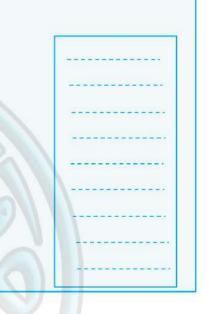




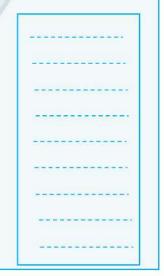
Home work

10

1) Find the quotient:







Al-Mostafa



Standard algorithm to divide

Se	ervings of a baklava, how many trays will be needed to hold all the baklava?
22	
②if th	ne price of 16 books 560 pounds , find the price of each book ?
-	
	Na Mostafa /
NA.	
	rimary school has 588 pupils, it wanted to distribute equally among 14 class
Ho	w many pupils in each class ?

Lessons 1-2

Multiplying by power of ten

Multiplying decimals by whole number

Learn

Multiplying by x 10, x 100 and x 1,000

To multiply by 10 move the point one place to right

To multiply by 100 move the point two places to right

To multiply by 1,000 move the point three places to right



- $4 \times 10 = 40$
- (2)712.5 x 10 = 7,125
- 3) 562.4 x 10 = 5,624
- $1 4 \times 100 = 400$
- $(2)712.5 \times 100 = 71,250$
- $3 562.4 \times 100 = 56,240$
- $1 4 \times 1,000 = 4,000$
- $(2)712.5 \times 1,000 = 712,500$
- 3) 562.4 x 1,000 = 562,400

Example1 Complete:

- ① 23.14 x 10 =
- ② 7.125 x 10 =
- ③ 562.4 x 10 =
- ④ 0.002 x 10 =
- ⑤ 41.807 x 10 =......

- ① 23.14 x 100 =
- ② 7.125 x 100 =
- ③ 562.4 x 100 =
- ④ 0.002 x 100 =
- ⑤ 41.807 x 100 =.....

- ① 23.14 x 1000 =
- ② 7.125 x 1000 =
- ③ 562.4 x 1000 =
- 4 0.002 x 1000 =
- ⑤ 41.807 x 1000 =......

Exercise1 Complete:

- ① 14.6 x 10 =
- ② 56.71 x 10 =
- ③ 4.635 x 10 =
- 4 14.6 x 100 =
- ⑤ 56.71 x 100 =
- ⑥ 4.635 x 100 =
- 7) 14.6 x 1000 =
- 8 56.71 x 1000 =
- 9 4.635 x 1000 =



Learn

Multiplying by $x \ 0.1$, $x \ 0.01$ and $x \ 0.001$



To multiply by 0.1 move the point one place to left

To multiply by 0.01 move the point two places to left

To multiply by 0.001 move the point three places to left

- 1) $4 \times 0.1 = 0.4$
- $(2)712.5 \times 0.1 = 71.25$
- 3) 562.4 x 0.1 = 56.24
- (1) 4 x 0.01 = 0.04
- $(2)712.5 \times 0.01 = 7.125$
- 3) 562.4 x 0.01 = 5.624
- $1 4 \times 0.001 = 0.004$
- $(2)712.5 \times 0.001 = 0.7125$
- 3) 562.4 x 0.001 = 0.5624

Example1 Complete:

- ① 23.14 x 0.1 =
- ② 7.125 x 0. 1 =
- ③ 562.4 x 0.1 =
- ④ 1.2 x 0.1 =
- ⑤ 4180.7 x 0.1

- ① 23.14 x 0.01 =
- ② 7.125 x 0.01 =
- ③ 562.4 x 0.01 =
- 4 1.2 x 0.01 =
- ⑤ 4180.7 x 0.01 =......

- ① 23.14 x 0.001 =
- ② 7.125 x 0.001 =
- ③ 562.4 x 0.001 =
- 4 0.002 x 0.001 =
- ⑤ 418.07 x 0.001 =......

Exercise1 Complete:

- ① 14.6 x 0.1 =
- ② 56.71 x 0.1 =
- $34.635 \times 0.1 = \dots$
- $40.009 \times 0.1 = \dots$
- ⑤ 20.02 x 0.1 =......

- ① 14.6 x 0.01 =
- ② 56.71 x 0.01 =
- ③ 4.635 x 0.01 =
- ④ 0.009 x 0.01 =
- ⑤ 20.02 x 0.01 =......

- ① 14.6 x 0.001 =
- ② 56.71 x 0.001 =
- ③ 4.635 x 0.001 =
- 4 0.009 x 0.001 =
- ⑤ 20.002 x 0.001 =......



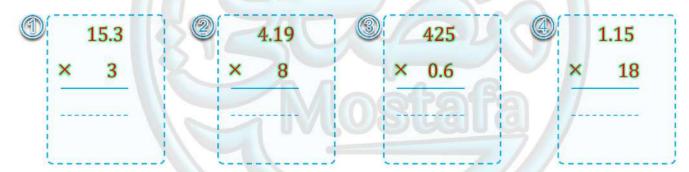
Learn

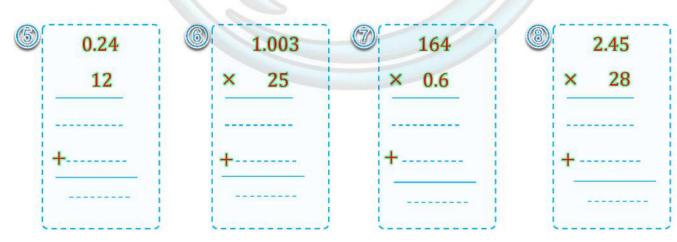
Multiplying decimals by whole number

If $3 \times 2 = 6$, then $3 \times 0.2 = 0.6$ (one decimal right of the point) and $4 \times 6 = 24$, then $4 \times 0.6 = 2.4$ (one decimal right of the point)

and $5 \times 25 = 125$, then $5 \times 0.25 = 1.25$ (two decimal right of the point)

Answer the following: Example1





145

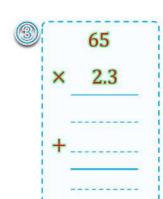
 \times 0.23

33.35

Exercise1 Answer the following:

427 × 0.2







Example2 Complete:

- $3 \times 2 \text{ hundredths} = 6 \text{ hundredths}$ = 0.06
- 4×7 hundredths = 28 hundredths = 0.28
- 5 × 9 tenths = tenths
 =
- 7 × 9 tenths = tenths =
- 8 × 9 thousandths = thousandths =
- 6 × 7 hundredths = hundredths =
- 6 4 ×15 thousandths = thousandths =
- (a) 3 × 5 tenths = tenths =

Exercise2 Complete:

- 2 × 8 hundredths = hundredths =
- 3 × 4 thousandths = thousandths =
- 6 × 7 tenths = tenths =
- 4 × 9 tenths = tenths =
- 8 × 3 thousandths = thousandths =
- 6 × 9 hundredths = hundredths =

1 Complete:

$$40.002 \times 1,000 = \dots$$

$$46 \times 0.471 = \dots$$

(1) Choose the correct answer:

①
$$7 \times 0.7 = \dots$$

$$35 \times 0.1 = \dots$$

$$\bigcirc$$
 3 x 0.6

$$84 \times 4$$
 Thousandths =



Lessons 3-4

Multiplying tenths by tenths Using the area model to multiply

Multiplying tenths by tenths Learn

one one two place

$$0.1 \times 0.1 = 0.01$$

one one two place place
$$1.2 \times 0.7 = 0.84$$

Example 1 Find the products:

$$\bigcirc 0.2 \times 0.3 = 0.06$$

$$31.2 \times 0.3 = 0.36$$

$$20.5 \times 0.2 = 0.10 = 0.1$$

$$42.4 \times 0.2 = 0.48$$

Example2 | Find the products:

$$\bigcirc 0.7 \times 0.3 = \dots$$

Exercise1 Find the products:

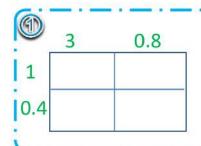
①
$$0.5 \times 0.5 = \dots$$



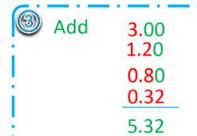
Learn

Using the area model to multiply decimals

How to evaluate 1.4 x 3.8?



2	3	0.8
1	3	0.8
0.4	1.2	0.32



Example 1 Find the products:



Exercise 1 Find the products:

Example 2 Choose the correct answer:

① Since
$$9 \times 3 = 27$$
, then $0.9 \times 0.03 = \dots$ [27 , 2.7 , 0.27 , 0.027]

②Since
$$3 \times 15 = 45$$
, then $0.3 \times 1.5 = \dots$ [45, 4.5, 0.45, 0.045]

③Since
$$7.5 \times 4.3 = 32.25$$
, then $75 \times 0.43 = \dots$

4 If area model of a problem is

	3	0.2	
4	X	0.8	
0.7	2.1	у	

12

4 If area model of a problem is

then
$$L + M = \dots$$

then x + y =

8 15.14 , 15 , 8.15



1 Find the products:

② Find the products by using area model:



Lessons 5-6

Multiplying decimals through the **Hundredths and thousandths place**



Ignore the decimal point

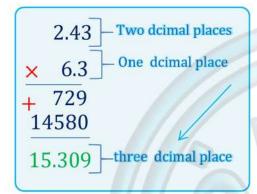


Multiply

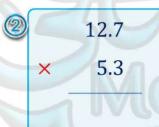


Place the decimal point

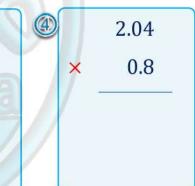
Example 1 Find the product:

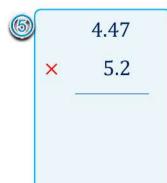


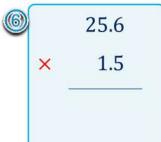


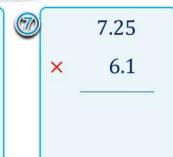


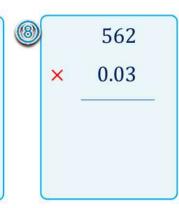














Exercise 1 Find the product:

40.7

× 3.2

2.4

× 1.5

3 7.14

× 2.1

4 585

× 0.3

Example 2 Compare using [> , = , <]:

(1) 0.318 ×1.5

 3.18×0.15

2

 0.214×38

 2.14×3.8

(3) 03.45×2.1

 34.5×0.21

4

 0.045×3.6

 45×0.036

(5)

 574×0.126 57.4×1.26

6

 74.2×3.5

 7.42×35

7

 3.87×3.5

 38.7×0.35

(8)

 458×4.52

 45.8×4.52

9

 0.258×1.7

 2.58×0.17

(10)

714 ×1.5

 7.14×0.15

Exercise 1 Compare using $[> , = , <]_{:}$

1

 0.528×1.5

 5.28×0.15

2

 0.214×38

 2.14×3.8

(3)

 03.05×2.4

 30.5×0.24

 0.015×5.6

 15×0.56

6

521 ×8.26

 52.1×826

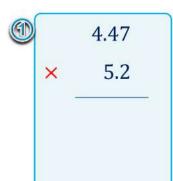
369 ×3.5

 36.9×35

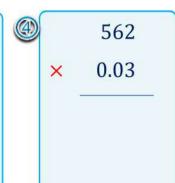


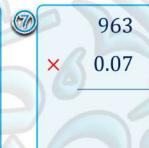
20

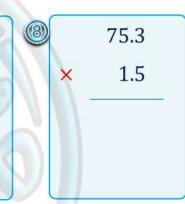
1 Find the products:











② Compare using [> , = , <]

1	0.416 ×1.5	41.6×0.15



0.023 ×38

 2.3×3.8



 $2.4 \qquad 315 \times 0.24$



 0.015×5

1	15	×

(5)

121 ×8. 06 12.1 × 806



 32.8×3.5



 32.8×35

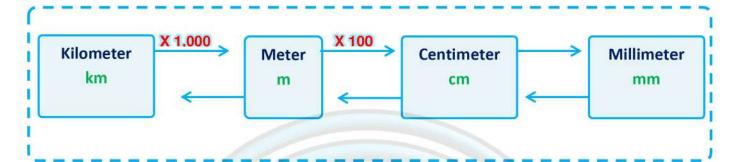
0.005



Lessons 7-8

decimals and the metric system measurement decimals and power of ten

Learn



Example 1 Complete

X 100

 \bigcirc 7.54 m = ...**754**...... cm

2

14.16 mm = ... 1.416..... cm

X 0.001

X 0.1

X 0.01

 $255.2 \text{ cm} = ... \frac{2.552}{1.000} \text{ m}$

(4)

4,620 m =4.62.....km

X 10

1.14 cm =...11.4..... mm

4

4,620 km =4.62.....m

X 1000

Exercise 1 Complete

$$7.456 \text{ m} = \dots \text{cm}$$

(3)

$$75.3 \text{ cm} = \dots \text{m}$$



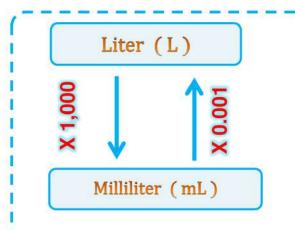
(3)

(5)



gram (g)

Metric units of mass



Metric units of capacity

Example 2 Complete

X 1000

9 7.54 kg = ...7540 g

7541

7.54 L = ...7540... ml

X 1000

X 1000

X 1000

 $2.425 \text{ kg} = ..._{2,425}.....g$

(a) 0.025 L = ...25...... ml

X 0.001

41.6 g = ...0.0416....... kg

@

582 ml = ...<mark>0.528</mark>...... L

X 0.001

Exercise 2 Complete

 \bigcirc 0.5 kg = g

2

 $0.25 L = \dots ml$

8.12 kg = g

4

 $7.3 L = \dots ml$

(5) 745.6 g = kg

6

 $75 \text{ ml} = \dots L$

 $418 g = \dots kg$

®

 $761.1 \text{ ml} = \dots L$



Example 3 Complete

①
$$5.7 L = \dots ml$$

$$27,400 \text{ ml} = \dots L$$

$$3.02 \text{ kg} = \dots$$

$$4 2.5 L =ml$$

$$5140 g =kg$$

$$6 317 \text{ kg} = \dots \text{g}$$

$$\bigcirc$$
 5 L - 3,200 ml = L

$$815.6 \text{ kg} + 1,800 \text{ g} = \dots \text{kg}$$

<u>Put</u> [> , = , <] **Example 4**

1 2,180 cm

2.18 m



0.41 kg

416 g

(3)

0.005 L

5 ml

4

24 mm

0.24 cm

(5)

0.088 m

8.7 cm

7.1 L

715 ml

7

8 g



 $0.08 \, \mathrm{kg}$



0.01 km

7 m

Home Work



1 Complete

①
$$0.43 L = \dots ml$$

②
$$3,250 \text{ ml} = \dots L$$

$$314.1 \text{ kg} = \dots \text{g}$$

$$4$$
 2.5 L =ml

$$\textcircled{5}$$
 2,647 g =kg

$$60.048 \text{ kg} = \dots$$

$$\bigcirc$$
 2,647 km = m

$$93 L + 243 ml = \dots L$$

② <u>Put</u> [> , = , <]



9,421 g
94.21 kg
0.07 km
7 m

Lesson 9

Solving multistep story problems

①dalia made a liter of sugar cans juice . she drank 320 ml , her father
drank 0.25 L, how much sugar can juice is remaining?
②Hoda is stride 0.72 meters, how far in meters will Hoda walk after
Talking 1000 stride?
③Samy bought 14.5 meters of clothes . the price of each meter
Is 3.5 pounds, what is the price of cloths?
- Musicalia /
④sandy bought 450 ml of mango juice . her sister Martina drink 0.26 L .
What is the remaining quantity of the mango juice?

Home Work



1 Answer the following

(1) Eman saved 12.3 pounds each week, how much money she saved
In 10 weeks?
②Amara went to the supermarket, she bought 1.5 kg of tomatoes, 875 g
Of peas, find the weight [in gram] of what Amara bought?
③Amgad needs to drink about 4,230 ml of water every day, how many
Liters of water does he need ?
Liters of water does he need?

Lessons 10-11

Dividing by power of ten patterns and relationships in powers

Learn

Dividing by \div 10 , \div 100 and \div 1000



To divide by 10 move the point one place to left To divide by 100 move the point two places to left To divide by 1000 move the point three places to left

$$(1)$$
 $4 \div 10 = 0.4$

$$(1)$$
 $4 \div 100 = 0.04$

$$2712.5 \div 10 = 71.25$$

$$(2)712.5 \div 100 = 7.125$$

$$35624 \div 10 = 5624$$

(3)
$$562.4 \div 10 = 56.24$$
 (3) $562.4 \div 100 = 5.624$

$$(2)712.5 \div 1000 = 0.7125$$

 $(3) 562.4 \div 1000 = 0.5624$

Example1 Complete:

Exercise1 Complete:



Learn

Multiplying by \div 0.1 , \div 0.01 and \div 0.001

To multiply by 10 move the point one place to right

To multiply by 100 move the point two places to right

To multiply by 1,000 move the point three places to right



$$(1)$$
 $4 \div 0.1 = 40$

$$2712.5 \div 0.1 = 7,125$$

$$2712.5 \div 0.01 = 71,250$$

$$2712.5 \div 0.001 = 712,500$$

$$3)$$
 562.4 ÷ 0.1 = 5,624

$$3)$$
 562.4 ÷ 0.01 = 56,240

$$3 562.4 \div 0.001 = 562,400$$

Example1 Complete:

Exercise1 Complete:



X 10

X 100

X 1000

÷ 0. 1

÷ 0.01

÷ 0.001

Home Work

15

Choose the correct answer:

$$\bigcirc 1) 6.3 \times 100 = \dots$$

A- 0.063

B-6300

C- 6.300

D-630

$$(2)$$
 536 \times 0.01 =

A- 0.536

B-5.36

C-53.6

D-5.3600

$$(3)$$
 52 × 0.1

A-52

B-5,200,000

C-5.2

D-0.052

$$(4)$$
 305 × 100

A-30,500

B-30.5000

C-305

D-3,050

Complete:-

$$(1) 0.4 \div 0.001 = \dots$$

 $(2)2.35 \times 10 = \dots$

$$33.56 \times 100 = 33.56 \div \dots$$

4 28.4 x = 0.284

$$(5)$$
 3.4 m = km

6 712 ml = L

Answer:

What is the height of 10 floors in a building? if the height of each floor 280 cm in meters?

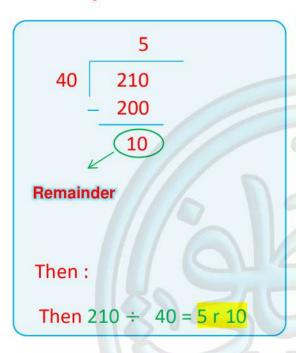


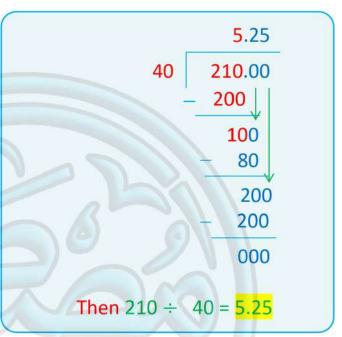
Lessons 12-13

Dividing decimals by whole numbers
 Dividing decimals by decimals

Learn Dividing decimals by whole numbers

How can you evaluate 210 ÷ 40 without remainder?





Example 1 Divide:

50 155

15 58.05

8 9



Exercise1 Divide:



Learn Infinite division

1

to the nearest hundredths

9 223.1

to the nearest thousandths



to the nearest tenths

Exercise2 Divide:

1

to the nearest hundredths

3 5.5



8 5



to the nearest tenths



Dividing decimals by decimals Learn

To divide by a decimal, writing the devisor as a whole number

Do this by multiplying the divisor and dividing by 10, 100 and 1000

According to the number of places of the decimal part of the divisor.

Example1 Divide:

× 10

× 10



Exercise1 Divide:



$$0.42 \div 0.06 =$$





Example2

Divide:

you may need to add a zero or More to the right of the dividend











Exercise 2 Find the quotient.

$$4 \cdot 1.12 \div 0.32 =$$

Home work

Complete:

1
$$3.6 \div 0.4 = \dots$$

$$27.2 \div 0.8 = \dots$$

$$40.28 \div 0.004 = \dots$$

Choose the correct answer:

1
$$80 \div 0.08 = \dots$$
 [A- 10 B- 100 C- 1000 D- 8000]

4
$$1.6 \div 0.2 = \dots$$
 [A – 8 B- 6 C- 0.8 D- 12]

Find the quotient:-

1
$$15.64 \div 3.4 = \dots$$
 2 $64.5 \div 4.3 = \dots$



Lessons 1-2

numerical expression

numerical expression with grouping symbols

Learn

Order of operation



$$3 + 0.2 \times 5$$
$$3 + 1.0 = 3$$

$$3 + 0.2 \times 5$$
$$3.2 \times 5 = 16$$



Which answer is the correct?

Salma's or Adam's

First

brackets
() or [...]

Second

Multiply or divide from the left $\times \ or \ \div$

Third

Addition or subtract from the left $+ \ or \ -$

Example1 Complete:

$$12 + (9-2) \times 8$$

Solution

$$= 12 + (9 - 2) \times 8$$
 bracktes first

$$= 12 + 7 \times 8$$
 multiply

$$= 12 + 56$$
 add

$$= 68$$

2
$$53 \times 2 + 54 \div 1.5$$

solution

$$= 53 \times 2 + 54 \div 1.5$$
 multiply, divide

$$= 106 + 36$$
 add

$$= 142$$

Exercise 1

Use the order of operation to find.

 $10 \times 4 - 3$

 $3.6 \times (4+6) - 12$

5 $8 + (2.4 \div 0.4) \times 3$

 $215 \div 3 + 2$

 $46 + 4 \times 2 - 14$

 $6(30-4) \times 2 + 5$



Exercise 2 Choose the correct answer

1 the first operation to solve $88 - 14 \div 7 + 12 \times 33$ is

[A. subtract

B. divide

C. add

D. multiply]

 $27.6 \div 0.2 + 3.3 \times 10 = \dots$

[A. 15.2

B. 54

C. 71

D. 266

3 $33 \div (2+9) \times 5 = \dots$

[A. 6

B. 7

C. 12

D. 15

 $4 \ 10 + 4 \times 6 - 24 = \dots$

[A. 14

B. 24

C. 10

D. 216

5 the second step to solve $9.3 \times 0.1 + 4.7 - 1.1$ is

[A. 9.3×0.1 B. 9.3×4.8 C. 0.93 + 4.7 D. 0.93 + 1.1]

Home work

 $240 - 10 \div 5$

 $418 \div 3 \times 3$

 $63 + 3.3 \div 1.1 - 6$

Use the order of operation to find.

$$150 \div 10 + 6 \times 1.5 - 5$$

1 the first operation to solve $12 + 20 \times 5 - 5$ is

Choose the correct answer:-

B. divide

C. add D. multiply

$$2 30 - 10 \times 3 + 6 = \dots$$

[A. 26

B. 6

C. 20

D. 30

$$3 100 + 3.04 \times 100 = \dots$$

[A. 404

B. 10,30

C. 304 D. 3.104

$$\mathbf{4} \ 9 - 6 + 3 \times 2 = \dots$$

[A. 6

B. 3

C. 0

D. 9



Writing expression to represent scenarios

Example 1:

Add 22.7 and 35.3 then multiply the result by 3.

Solution: $(22.7 + 35.3) \times 3 = 58 \times 3 = 174$

Example 2:

subtract 3.1 from 4.62 then multiply the result by 2

Solution:

Example 3:

Divide 93 by 0.3 and then add 40 after that divide the result by 5

Solution:

Exercise

Writing expression then evaluate the expression:

1 add 7.4 and 2.3 then multiply the result by 10

Solution:

2 subtract 12.4 from 26.8 then divide the result by 100

Solution:

3 find the difference between 10 and 9.27, multiply by sum of 54 and 46

Solution:

4 add 32 to 25 and divide the result by 0.5

Solution:

Homwork



Writing expression then evaluate the expression:

 $oldsymbol{1}$ difference between 42 and 37 then multiply the sum of 2 and 8 2 multiply 3.6 by 10 and add the result to 12.4 **3** divide the sum of 34.8 and 65.2 by 5 f 4 add 64.2 to 12.6 , then multiply the result by 10 5 add 18.7 to the result of dividing 45.6 by 10 then subtract the result from 99 6 subtract 13.2 from the sum of 23.6and 61.4

7 divide the sum of 3.8 and 5.2 by 3

Lesson 4

Idintifying numerical pattern

Learn look number pattern find the rule.

Think what should I do to 2 to get 5? what should I do to 5 to get 8?



Example 1 Look at each table and determine the rule:

Input	Output	Input	Output	Input	Output	Input	Output
5	7	4	1	5	7	5	4
6	8	8	2	6	8	6	5
7	9	12	3	7	9	7	6
8	10	16	4	8	10	8	9
Rule:	NX.	Rule:		Rule:		Rule:	

Example 2 Write the rule for each pattern, and complete:

- 1 52,44,36,28,20,...12.....,4..... Rule ...n 8
- 2 23, 27,, 35, 39, Rule
- **3** 2, 4, 8, 16,, 64, Rule
- **5** If the rule is $n\times 3$, and the output is 18, then the input is



Exercise 1 Look at each table and determine the rule:

Input	Output
5	20
6	24
7	28
	36

Input	Output
3	8
4	9
5	
	11

Input	Output
9	6
12	
14	11
16	13

Input	Output
50	10
45	9
40	
	6

Rule:

Rule:

Rule:

Rule:

Exercise 2 Write the rule for each pattern, and complete:

1 17,, 21, 23,,

Rule

2, 8, 15,, 29,

Rule

3 3, 9, 27,,

Rule

4 1000, 100, 10,

Rule

Exercise 3 Complete:

1 The rule of the pattern: 3, 7, 11, 15,

The rule of the pattern: 3, 6, 12, 24, is

3 The rule of the pattern: 5, 5.3, 5.6, 5.9, is

4 If the input is 7 and the rule is n+4, then the output is

 $\mathbf{5}$ If the rule is n+4, and the output is 13, then the input is

Homwork

1) Look at each table and determine the rule:

Input	Output	
2	5	ľ
6	9	İ
10	13	ľ
	20	ŀ

Input	Output
3	6
5	10
7	
11	22

Input	Output
9	7
12	
14	12
16	14

Input	Output
2	10
3	15
4	
	30

Rule:

Rule: -----

Rule:

Rule: -----

2 Write the rule for each pattern, and complete:

1 19,, 13, 10,,

Rule

2, 7, 13,, 25,

Rule

3 1,3,5,.....,.....

Rule

4 5, 10, 115,,

Rule

3 Complete:

1 The rule of the pattern: 4,8,12,16, is

2 The rule of the pattern: 2,4,8,16,.... is

3 The rule of the pattern: 3, 3.6, 4.2, 4.8, is

5 If the rule is $n \div 4$, and the output is 12, then the input is





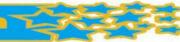
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